



Figure 1

ggcgccgcgc cgcgcgcgcgc cgcgcgcgcgc gctgcctccc ttctctcttc cctctctttc tcccttgccg tgcctgcctc gctgccttc ggcgcctggg 100

cccgcgccgc ggcccgccgc cctcgccgcgc cctggcctcc ggggtccctc aggcgcgcgc gggcgccgc cgcgcgcgc tgcgcgcgc tctgtacccc 200

accaccacca ccaccagggc cgcgcgcgcgc ggcgcgcgcgc agggcgcgcgc cctagggcgc tggcgATGGG G6CCGTCCGG ATCGCGCCCG G6CTGGCGCT 300
M G A U R I A P G L A L

GCTGCTGTGC TGCCCGGTGC TCAGCTCCGC GTACGCGCTG GTGGATGCG ATGACGTAT GACCAAGAG GAGCAGATCT TCCTGCTGCA CCGCGCCCG 400
L L C C P U L S S A Q L U D A D D U M T K E E Q I F L L H R A Q

GCCCGTGC CAGAGCGGCT CAGAGAGTC CTGAGAGGC CAGCTGACAT ATGGAATCA GACAAAGGAT GGGCTTCTGC ATCCACATCA GGGAGCCTA 500
A Q C Q K R L K E U L Q R P A D I M E S D K G W A S A S T S G K P K

AGAAAGAGAA GGCATCTGGG AAGCTCTACC CTGAGTCCGA GGGAGACAG GAGGTGCCCA CTGGCAGCAG GCACCGAGGG CGCCCTCTGC TGCCCGAGTG 600
K E K A S G K L Y P E S E E D K E U P T G S R H R G R P C L P E W

GGACCAATCA CTTTGTCTGC GCTG6GGGG ACCAGGTGAG GTGGTGGCTG TGCCCTGTCC CGACTACATT TATGACTTCA ATCACAAGG CCATGCTAC 700
D H I L C W P L G A P G E U U A U P C P D Y I Y D F N H K G H A Y

CGTGCCTGTG ACCGCAATGG CAGCTGGGAG CTGGTGGCTG GACCAACCG GACGTGGGGC AACTACAGCG AGTGTGTCA GTTCTGTACC AACGAGCTC 800
R R C D R N G S W E L U P G H N A T W A N Y S E C U K F L T N E T R

GTGACGGGA GGTGTTTGC CCGTGGGA TGAATACAC CTGGGGTAC TCGGTGTCG TGGCTTCTCT CACCGTGGGC GTGCTATCC TGGCTACTT 900
E A E U F D R L G M I Y T U G Y S U S L A S L T U A U L I L A Y F

CAGGCGGCTG CACTGCACAC GCACTACAT CCACTGGAC CTGTCTCTGT CTTTCTATCT TCGCGCCGTG AGCATCTTCG TCAGGAGCG GGTGCTCTA 1000
R R L H C T R N Y I H M H L F L S F M L R A U S I F U K D A U L Y

TCGGGCGCA CAGCTGACGA GGGGAGCGC CTCACGGAGG AAGAGCTGG GCGATCGC CAGGACCCCG CGCCGCCCGC CGCCGCCCGC GGTACGCGG 1100
S G A T L D E A E R L T E E E L R A I A Q A P P P P T A A A G Y A G

GCTGCGGGT AGCTGTGACC TTCTCTCTT ATTTCTCTGC CACCACTAC TACTGGATTC TGGTGGAGGG GTGTACCTG CATAGTCTCA TCTTATGG 1200
C R U A U T F F L Y F L A T N Y Y M I L U E G L Y L H S L I F M A

CTTCTCTCA GAGAGAGT ACCTGAGG CTTCAGGTC TTGCGCTGG GTCTGCGCG GTCTTCTGT GTGTGTGGG TCAGGAGAG ACCACCTG 1300
F F S E K K Y L W G F T U F G W G L P A U F U A U W U S U R A T L

GCAACACCG GGTGCTGGG CTTGAGCTCC GGGAGACGA AGTGATCT CAGGTGGCC ATCTGAGCT CTATGTGCT CAATTCATC TTGTATCA 1400
A N T G C W D L S S G N K K W I I Q U P I L A S I U L N F I L F I N

ACATGCTCC GGTGCTGGC ACAGAGCTGC GGGAGACCA TGCCGGCCGG TGTGACACG GGCAGCAGTA CCGGAGCTG CTCAGATCA CACTGGTGCT 1500
I U R U L A T K L R E T N A G R C D T R Q Q Y R K L L K S T L U L

CATGCGCTC TTGCGCTCC ACTACATCT CTTCATGCG ACCTGATCA CAGAGGTCT AGGGACGCTC TGGCAGTCC AGATGACTA CAGGTGCTG 1600
M P L F G U H Y I U F M R T P Y T E U S G T L W Q U Q M H Y E N L

TTCACTCTCT TCAGGAGAT TTTTGTCCG ATCATATCT GTTCTGCA TGGCGAGGA CAGGCGGGA TCAGGAATC CTGGAGCCGC TGGACACTG 1700
F N S F Q G F F U A I I Y C F C N G E U Q A E I K K S W S R W T L A

CCCTGACTT CAGCGCAGG GCGCGAGTG GAGCAGCAG TTACAGTAC GCGCCGATG TGTCTCACG GAGCGTGACC AACGTAGGC CCCGCGCGG 1800
L D F K R K A R S G S S S Y S Y G P N U S H T S U T N U G P R A G

ACTTGGCTG CCCCTAGCC CCCGCTGCT GCGCGCCGCT GCGGCCACCA CCACTGCGC CACCAACGGC CACCCCCCA TCCCGGCGCA CACCAAGCCA 1900
L G L P L S P A L L P A A A A T T T A T T N G H P P I P G H T K P

GGGCGCCCGA CCGTCCCGG CACACCACT CCGCAGGCTG CTCCCAAGGA CAGTGGGTC CTCACGGCT CCGCTCGGG GCTGGACGAG GAGGCTCCG 2000
G A P T L P A T P P A T A A P K D D G F L N G S C S G L D E E A S A

CGCCGAGCG GCTTCCCGC CTGCTGAGG AGGAGTGGG GACGCTATG TGAAGGGGA CCGTGGCGG GGTGGAGT GGGAGACAA GGGCGAGAG 2100
P E R P P A L L Q E E W E T U M

acggcccaag agacagggcg ttggacagt gccactcag ggcggggct gggaagacaa aacaaacaaa aaaaaaa 2177

Figure 2

dPTH1	ATGGGGCCG	CCGGATCGC	CCCGGCTG	CGCTGCT	CTCTGCTGCC	GTGCTCAGC	TCCGCTAGG	CGCTG	75
rPTH1	ATGGGGCCG	CCGGATCGC	CCCGGCTG	CGCTGCT	CTCTGCTGCC	GTGCTCAGC	TCCGCTAGG	CGCTG	75
mPTH1	ATGGGGCCG	CCGGATCGC	CCCGGCTG	CGCTGCT	CTCTGCTGCC	GTGCTCAGC	TCCGCTAGG	CGCTG	75
hPTH1	ATGGGGCCG	CCGGATCGC	CCCGGCTG	CGCTGCT	CTCTGCTGCC	GTGCTCAGC	TCCGCTAGG	CGCTG	75
dPTH1	GTGGATGCG	ATGAGTGTAT	TAACAAAGAG	GACAGAT	TTCTGCTGCA	CCGTCAG	GCCAGTGC	ATAAG	150
rPTH1	GTGGATGCG	ATGAGTGTAT	TAACAAAGAG	GACAGAT	TTCTGCTGCA	CCGTCAG	GCCAGTGTG	ATAAG	150
mPTH1	GTGGATGCG	ATGAGTGTAT	TAACAAAGAG	GACAGAT	TTCTGCTGCA	CCGTCAG	GCCAGTGTG	ATAAG	150
hPTH1	GTGGATGCG	ATGAGTGTAT	TAACAAAGAG	GACAGAT	TTCTGCTGCA	CCGTCAG	GCCAGTGC	AAAAA	150
dPTH1	CTGCTCAAAG	AGTCTGCA	GAGGCAGCT	GACATAATGG	ATCAGACAA	AGGATGGCT	CTGCTGCA	CATCA	225
rPTH1	CTGCTCAAAG	AGTCTGCA	GAGGCAGCT	GACATAATGG	ATCAGACAA	AGGATGGCT	CTGCTGCA	CATCA	225
mPTH1	CTGCTCAAAG	AGTCTGCA	GAGGCAGCT	GACATAATGG	ATCAGACAA	AGGATGGCT	CTGCTGCA	CATCA	225
hPTH1	CTGCTCAAAG	AGTCTGCA	GAGGCAGCT	GACATAATGG	ATCAGACAA	AGGATGGCT	CTGCTGCA	CATCA	225
dPTH1	GGGAAGCCTA	AGAAAGAA	GGCATCTGG	AAGTCTACC	CTGAGTCTAA	AGAGACAAG	GAGGTCCCA	CTGGC	300
rPTH1	GGGAAGCCTA	AGAAAGAA	GGCATCTGG	AAGTCTACC	CTGAGTCTAA	AGAGACAAG	GAGGTCCCA	CTGGC	300
mPTH1	GGGAAGCCTA	AGAAAGAA	GGCATCTGG	AAGTCTACC	CTGAGTCTAA	AGAGACAAG	GAGGTCCCA	CTGGC	300
hPTH1	GGGAAGCCTA	AGAAAGAA	GGCATCTGG	AAGTCTACC	CTGAGTCTAA	AGAGACAAG	GAGGTCCCA	CTGGC	300
dPTH1	AGCAGGCTAC	GAGGGCCCTC	CTGCTGCC	GAGTGGGAC	ACATCTTTG	CTGGCCGTTG	GGGGACCAG	GTGAG	375
rPTH1	AGCAGGCTAC	GAGGGCCCTC	CTGCTGCC	GAGTGGGAC	ACATCTTTG	CTGGCCGTTA	GGGGACCAG	GTGAG	375
mPTH1	AGCAGGCTAC	GAGGGCCCTC	CTGCTGCC	GAGTGGGAC	ACATCTTTG	CTGGCCGTTG	GGGGACCAG	GTGAG	375
hPTH1	AGCAGGCTAC	GAGGGCCCTC	CTGCTGCC	GAGTGGGAC	ACATCTTTG	CTGGCCGTTG	GGGGACCAG	GTGAG	375
dPTH1	GTGGTGGGAG	TACCTGTGCC	GATACATT	TATGACTTCA	ATCACAAAGG	CCATGCCCTAC	AGACGCTG	ACCAG	450
rPTH1	GTGGTGGGAG	TACCTGTGCC	GATACATT	TATGACTTCA	ATCACAAAGG	CCATGCCCTAC	AGACGCTG	ACCAG	450
mPTH1	GTGGTGGGAG	TACCTGTGCC	GATACATT	TATGACTTCA	ATCACAAAGG	CCATGCCCTAC	AGACGCTG	ACCAG	450
hPTH1	GTGGTGGGAG	TACCTGTGCC	GATACATT	TATGACTTCA	ATCACAAAGG	CCATGCCCTAC	AGACGCTG	ACCAG	450
dPTH1	AATGGCAGCT	GGGAGTGGT	CCCGGAC	AACGGACGT	GGGCCAACTA	CAGCGAGTGT	GTCAAGTTTC	TSACC	525
rPTH1	AATGGCAGCT	GGGAGTGGT	CCCGGAC	AACGGACGT	GGGCCAACTA	CAGCGAGTGT	GTCAAGTTTC	TSACC	525
mPTH1	AATGGCAGCT	GGGAGTGGT	CCCGGAC	AACGGACGT	GGGCCAACTA	CAGCGAGTGT	GTCAAGTTTC	TSACC	525
hPTH1	AATGGCAGCT	GGGAGTGGT	CCCGGAC	AACGGACGT	GGGCCAACTA	CAGCGAGTGT	GTCAAGTTTC	TSACC	525
dPTH1	AATGAGACTC	GGAACGGGA	GGTATTTGAC	CGCCTGGCA	TGATTTACAC	CGTGGGATAC	TCCATGTCTC	TGGC	600
rPTH1	AATGAGACTC	GGAACGGGA	GGTATTTGAC	CGCCTGGCA	TGATTTACAC	CGTGGGATAC	TCCATGTCTC	TGGC	600
mPTH1	AATGAGACTC	GGAACGGGA	GGTATTTGAC	CGCCTGGCA	TGATTTACAC	CGTGGGATAC	TCCATGTCTC	TGGC	600
hPTH1	AATGAGACTC	GGAACGGGA	GGTATTTGAC	CGCCTGGCA	TGATTTACAC	CGTGGGATAC	TCCATGTCTC	TGGC	600
dPTH1	TCCCTCAGG	TGGGTGTGCT	CATCCTAGCC	TATTTAGGC	GGCTGCACTG	CACCGCAAC	TACATCCACA	TGCAC	675
rPTH1	TCCCTCAGG	TGGGTGTGCT	CATCCTAGCC	TATTTAGGC	GGCTGCACTG	CACCGCAAC	TACATCCACA	TGCAC	675
mPTH1	TCCCTCAGG	TGGGTGTGCT	CATCCTAGCC	TATTTAGGC	GGCTGCACTG	CACCGCAAC	TACATCCACA	TGCAC	675
hPTH1	TCCCTCAGG	TGGGTGTGCT	CATCCTAGCC	TATTTAGGC	GGCTGCACTG	CACCGCAAC	TACATCCACA	TGCAC	675
dPTH1	CTGTTCTGT	CTTTATGCT	CGCGCCG	AGCATCTTCG	TAAAGGACGC	GTGCTCTAC	TCGGCTCA	CGCTG	750
rPTH1	ATGTTCTGT	CTTTATGCT	CGCGCCG	AGCATCTTCG	TAAAGGACGC	GTGCTCTAC	TCGGCTCA	CGCTG	750
mPTH1	ATGTTCTGT	CTTTATGCT	CGCGCCG	AGCATCTTCG	TAAAGGACGC	GTGCTCTAC	TCGGCTCA	CGCTG	750
hPTH1	CTGTTCTGT	CTTTATGCT	CGCGCCG	AGCATCTTCG	TAAAGGACGC	GTGCTCTAC	TCGGCTCA	CGCTT	750
dPTH1	GATGAGGCTG	AGCGCTCAC	AGAGGAAGAG	GTGCGGCA	TCGTCAGG	ACCCCGCCG	CCACCGCG	CCGCG	825
rPTH1	GATGAGGCTG	AGCGCTCAC	AGAGGAAGAG	GTGCGGCA	TCGTCAGG	ACCCCGCCG	CCACCGCG	CCGCG	812
mPTH1	GATGAGGCTG	AGCGCTCAC	AGAGGAAGAG	GTGCGGCA	TCGTCAGG	ACCCCGCCG	CCACCGCG	CCGCG	812
hPTH1	GATGAGGCTG	AGCGCTCAC	AGAGGAAGAG	GTGCGGCA	TCGTCAGG	ACCCCGCCG	CCACCGCG	CCGCG	824
dPTH1	GGC-----	-----	TACGGGGCTG	CAGGGTGGT	GTGACCTTCT	TCCTTATTT	CCTGGGACC	AACTA	884
rPTH1	GGCGCTGCG	CGCGTAGGGT	ACGGGGCTG	CGGGTGGG	GTGACCTTCT	TCCTTATTT	CCTGGGACC	AACTA	887
mPTH1	CGCGCTGCG	CGCGTAGGGT	ACGGGGCTG	CGGGTGGG	GTGACCTTCT	TCCTTATTT	CCTGGGACC	AACTA	887
hPTH1	-----TGCC	-----GGCT	ACGGGGCTG	CAGGGTGGT	GTGACCTTCT	TCCTTATTT	CCTGGGACC	AACTA	887
dPTH1	CTACTGGATT	CTGGTGGAGG	GCTGTAGT	TCAGAGCTC	ATCTTCATGG	CCTTTTCTC	AGAGAAGAAG	TACT	959
rPTH1	CTACTGGATT	CTGGTGGAGG	GCTGTAGT	TCAGAGCTC	ATCTTCATGG	CCTTTTCTC	AGAGAAGAAG	TACT	962
mPTH1	CTACTGGATT	CTGGTGGAGG	GCTGTAGT	TCAGAGCTC	ATCTTCATGG	CCTTTTCTC	AGAGAAGAAG	TACT	962
hPTH1	CTACTGGATT	CTGGTGGAGG	GCTGTAGT	TCAGAGCTC	ATCTTCATGG	CCTTTTCTC	AGAGAAGAAG	TACT	962

Figure 2 con't

dPTH1	GTGGGGCTTC ACAGTCTTGG GCTGGGGTCT GCCGGCTGTC TTCGTGGCTG TGTGGGTGAG GTGAGAGGC ACCCTT	1034
rPTH1	GTGGGGCTTC ACCATCTTGG GCTGGGGTCT ACCGGCTGTC TTCGTGGCTG TGTGGGTGAG GTGAGAGGC ACCCTT	1037
mPTH1	GTGGGGCTTC ACCATCTTGG GCTGGGGTCT GCCGGCTGTC TTCGTGGCTG TGTGGGTGAG GTGAGAGGC ACCCTT	1037
hPTH1	GTGGGGCTTC ACAGTCTTGG GCTGGGGTCT GCCGGCTGTC TTCGTGGCTG TGTGGGTGAG GTGAGAGGC ACCCTT	1037
dPTH1	GGCCAACAAC GGGTGCTGGG ACTTGAGCTC GGGGACAAAG AAGTGGATCA TCCAGGTGCC CATCCTGGGC TCTAT	1109
rPTH1	GGCCAACAAC GGGTGCTGGG ACTTGAGCTC GGGGACAAAG AAGTGGATCA TCCAGGTGCC CATCCTGGGC TCTAT	1112
mPTH1	GGCCAACAAC GGGTGCTGGG ACTTGAGCTC GGGGACAAAG AAGTGGATCA TCCAGGTGCC CATCCTGGGC TCTAT	1112
hPTH1	GGCCAACAAC GGGTGCTGGG ACTTGAGCTC GGGGACAAA AAGTGGATCA TCCAGGTGCC CATCCTGGGC TCTAT	1112
dPTH1	TGTGCTCAAC TTCATCTTGT TATCAACAT CTTCCGGGTG CTGGCAQA AGCTTCGGGA GACCAATGOC GGCCG	1184
rPTH1	TGTGCTCAAC TTCATCTTGT TATCAACAT CTTCCGGGTG CTGGCAQA AGCTTCGGGA GACCAATGOC GGCCG	1187
mPTH1	TGTGCTCAAC TTCATCTTGT TATCAACAT CTTCCGGGTG CTGGCAQA AGCTTCGGGA GACCAATGOC GGCCG	1187
hPTH1	TGTGCTCAAC TTCATCTTGT TATCAACAT CTTCCGGGTG CTGGCAQA AGCTTCGGGA GACCAATGOC GGCCG	1187
dPTH1	GTGTGACAAG GGGCAGCAGT ACCGGAAGCT GCTCAATCC ACCTGGTGCT TCATGCCCTCT CTTCGGGTC CACTA	1259
rPTH1	GTGTGACAAG GGGCAGCAGT ACCGGAAGCT GCTCAGGTCC ACCTGGTGCT TCATGCCCTCT CTTCGGGTC CACTA	1262
mPTH1	GTGTGACAAG GGGCAGCAGT ACCGGAAGCT GCTCAGGTCC ACCTGGTGCT TCATGCCCTCT CTTCGGGTC CACTA	1262
hPTH1	GTGTGACAQA GGGCAGCAGT ACCGGAAGCT GCTCAATCC ACCTGGTGCT TCATGCCCTCT CTTCGGGTC CACTA	1262
dPTH1	CATGTCTTC ATGGCCTTGC CTACACCGA GGTCTCAGGG ACCTTGGC AATCCAGAT GCATTAAGAG ATGCT	1334
rPTH1	CACGTCTTC ATGGCCTTGC CTACACCGA GGTCTCAGGG ACCTTGGC AATCCAGAT GCATTAAGAG ATGCT	1337
mPTH1	CACGTCTTC ATGGCCTTGC CTACACCGA GGTCTCAGGG ACCTTGGC AATCCAGAT GCATTAAGAG ATGCT	1337
hPTH1	CATGTCTTC ATGGCCTTGC CTACACCGA GGTCTCAGGG ACCTTGGC AATCCAGAT GCATTAAGAG ATGCT	1337
dPTH1	CTTCAACTCC TTCCAGGGAT TTTTGTGTC ATCATATAC TGTCTGCA ATGGGAGGT ACAGGAGAG ATTA	1409
rPTH1	CTTCAACTCC TTCCAGGGAT TTTTGTGTC ATCATATAC TGTCTGCA ATGGGAGGT ACAGGAGAG ATTA	1412
mPTH1	CTTCAACTCC TTCCAGGGAT TTTTGTGTC ATCATATAC TGTCTGCA ATGGGAGGT ACAGGAGAG ATTA	1412
hPTH1	CTTCAACTCC TTCCAGGGAT TTTTGTGTC ATCATATAC TGTCTGCA ATGGGAGGT ACAGGAGAG ATTA	1412
dPTH1	GAAATCTTGG AGCCGCTGGA CACTGGCCTT GGAATTCAAG CGAAAGGC GAAGTGGGAG TAGCAGTAC AGCTA	1484
rPTH1	GAAATCTTGG AGCCGCTGGA CACTGGCCTT GGAATTCAAG CGAAAGGC GAAGTGGGAG TAGCAGTAC AGCTA	1487
mPTH1	GAAATCTTGG AGCCGCTGGA CACTGGCCTT GGAATTCAAG CGAAAGGC GAAGTGGGAG TAGCAGTAC AGCTA	1487
hPTH1	GAAATCTTGG AGCCGCTGGA CACTGGCCTT GGAATTCAAG CGAAAGGC GAAGTGGGAG TAGCAGTAT AGCTA	1487
dPTH1	GGGCCCATG GTGTCTCACA CAGTGTGAC CAATGTGGC CCCCCTGAG GACTTGGCT CCCCCTAGC CCCC	1559
rPTH1	TGGCCCATG GTGTCTCACA CAGTGTGAC CAATGTGGC CCCCCTGAG GACTTGGCT CCCCCTAGC CCCC	1562
mPTH1	TGGCCCATG GTGTCTCACA CAGTGTGAC CAATGTGGC CCCCCTGAG GACTTGGCT CCCCCTAGC CCCC	1562
hPTH1	GGGCCCATG GTGTCTCACA CAGTGTGAC CAATGTGGC CCCCCTGAG GACTTGGCT CCCCCTAGC CCCC	1562
dPTH1	CCTGCTGCC GCCGCTGCC CCACCACCA CCGCAACC ACCAAGGCCA CCGGATGCC GGGCCACACC AAGCC	1634
rPTH1	CCTGCTGCC GCCGCTGCC CCACCACCA CCGCAACC ACCAAGGCCA CCGGATGCC GGGCCACACC AAGCC	1616
mPTH1	CCTGCTGCC GCCGCTGCC CCACCACCA CCGCAACC ACCAAGGCCA CCGGATGCC GGGCCACACC AAGCC	1616
hPTH1	CCTACTGCC GCCGCTGCC CCACCACCA CCGCAACC ACCAAGGCCA CCGGATGCC GGGCCACACC AAGCC	1619
dPTH1	AGGGGCTCAG ACCCT-----CCCG-G-C CACACCCTT GCTAGGCTG TCCCAAGGA CGATGGTTTCTTAA	1700
rPTH1	AGGGGCTCAG ACCCT-----CCCG-G-C CACACCCTT GCTAGGCTG TCCCAAGGA CGATGGTTTCTTAA	1688
mPTH1	AGGGGCTCAG ACCCT-----CCCG-G-C CACACCCTT GCTAGGCTG TCCCAAGGA CGATGGTTTCTTAA	1688
hPTH1	AGGGGCTCAG ACCCT-----CCCG-G-C CACACCCTT GCTAGGCTG TCCCAAGGA CGATGGTTTCTTAA	1694
dPTH1	GGGCTCCTGC TCAGGCTGG AGGAGAGGC CTCGGGCTT GAGCGGCCTC CTGCTGCTT CAGGAGAG TGGGA	1775
rPTH1	GGGCTCCTGC TCAGGCTGG AGGAGAGGC CTCGGGCTT GAGCGGCCTC CTGCTGCTT CAGGAGAG TGGGA	1763
mPTH1	GGGCTCCTGC TCAGGCTGG AGGAGAGGC CTCGGGCTT GAGCGGCCTC CTGCTGCTT CAGGAGAG TGGGA	1763
hPTH1	GGGCTCCTGC TCAGGCTGG AGGAGAGGC CTCGGGCTT GAGCGGCCTC CTGCTGCTT CAGGAGAG TGGGA	1769
dPTH1	GACAGTCATG TGA	1788
rPTH1	AACAGTCATG TGA	1776
mPTH1	AACAGTCATG TGA	1776
hPTH1	GACAGTCATG TGA	1782

Seq. ID No. 3A dPTH1; Seq. ID No. 3B rPTH1; Seq. ID No. 3C mPTH1 & Seq. ID No. 3D hPTH1

Figure 3

dPTH1	100	MGAVRIARGL ALLCCPVLS SAYALVDADD VMTKEEQIFL LHRQAQDQK RLKEVILQRPAA DIMESDKGWA SASTSGKPKK EKA SGGK TYPE SKEENKDVPTG
rPTH1	100	MGAVRIARGL ALLCCPVLS SAYALVDADD VMTKEEQIFL LHRQAQDQK RLKEVILQRPAA DIMESDKGWA SASTSGKPKK EKA SGGK TYPE SKEENKDVPTG
mPTH1	100	MGAVRIARGL ALLCCPVLS SAYALVDADD VMTKEEQIFL LHRQAQDQK RLKEVILQRPAA DIMESDKGWA SASTSGKPKK EKA SGGK TYPE SKEENKDVPTG
hPTH1	100	MGAVRIARGL ALLCCPVLS SAYALVDADD VMTKEEQIFL LHRQAQDQK RLKEVILQRPAA DIMESDKGWA SASTSGKPKK EKA SGGK TYPE SKEENKDVPTG
dPTH1	200	SRHGRPCLP EWDHITLCWPL GAPGEVVAVP CPDYIYDFNH KGHAYRRCDR NGSWELVPGH NRTWANYSEC MKFLTNETRE REVFDRLGMI YTVGYSVSLA
rPTH1	200	SRHGRPCLP EWDHITLCWPL GAPGEVVAVP CPDYIYDFNH KGHAYRRCDR NGSWELVPGH NRTWANYSEC MKFLTNETRE REVFDRLGMI YTVGYSVSLA
mPTH1	200	SRHGRPCLP EWDHITLCWPL GAPGEVVAVP CPDYIYDFNH KGHAYRRCDR NGSWELVPGH NRTWANYSEC MKFLTNETRE REVFDRLGMI YTVGYSVSLA
hPTH1	200	SRHGRPCLP EWDHITLCWPL GAPGEVVAVP CPDYIYDFNH KGHAYRRCDR NGSWELVPGH NRTWANYSEC MKFLTNETRE REVFDRLGMI YTVGYSVSLA
dPTH1	299	SLTVAVLILA YFRRHLHCTRN YIHMHLFLSF MLRAVLSIFVK DAVLYSGATL DEARLTEEE LRAIAQAPPP PTAAA GYAG CRVAVTFFLY FLATNYWII
rPTH1	300	SLTVAVLILA YFRRHLHCTRN YIHMHLFLSF MLRAVLSIFVK DAVLYSGATL DEARLTEEE LRAIAQAPPP PTAAA GYAG CRVAVTFFLY FLATNYWII
mPTH1	300	SLTVAVLILA YFRRHLHCTRN YIHMHLFLSF MLRAVLSIFVK DAVLYSGATL DEARLTEEE LRAIAQAPPP PTAAA GYAG CRVAVTFFLY FLATNYWII
hPTH1	300	SLTVAVLILA YFRRHLHCTRN YIHMHLFLSF MLRAVLSIFVK DAVLYSGATL DEARLTEEE LRAIAQAPPP PTAAA GYAG CRVAVTFFLY FLATNYWII
dPTH1	399	VEGLYLHSLI FMAFFSEKKY LWGFTVFGWG LPAVFVAVVW SVRATLANTG CWDLSSGKKK WIIQVPILAS IVLNFILFIN IMRVLATKLR ETNAGRCOTR
rPTH1	400	VEGLYLHSLI FMAFFSEKKY LWGFTVFGWG LPAVFVAVVW SVRATLANTG CWDLSSGKKK WIIQVPILAS IVLNFILFIN IMRVLATKLR ETNAGRCOTR
mPTH1	400	VEGLYLHSLI FMAFFSEKKY LWGFTVFGWG LPAVFVAVVW SVRATLANTG CWDLSSGKKK WIIQVPILAS IVLNFILFIN IMRVLATKLR ETNAGRCOTR
hPTH1	400	VEGLYLHSLI FMAFFSEKKY LWGFTVFGWG LPAVFVAVVW SVRATLANTG CWDLSSGKKK WIIQVPILAS IVLNFILFIN IMRVLATKLR ETNAGRCOTR
dPTH1	499	QQYRKLIKST LVLMPFLGVH YIVFMAIPYT EVSGTLWQVQ MHYEMLFNSF QGFFVAVIYC FCNGEVQAEI KKSWSRWTLA LDFKRKARS SSSYSYGPV
rPTH1	500	QQYRKLIKST LVLMPFLGVH YIVFMAIPYT EVSGTLWQVQ MHYEMLFNSF QGFFVAVIYC FCNGEVQAEI KKSWSRWTLA LDFKRKARS SSSYSYGPV
mPTH1	500	QQYRKLIKST LVLMPFLGVH YIVFMAIPYT EVSGTLWQVQ MHYEMLFNSF QGFFVAVIYC FCNGEVQAEI KKSWSRWTLA LDFKRKARS SSSYSYGPV
hPTH1	500	QQYRKLIKST LVLMPFLGVH YIVFMAIPYT EVSGTLWQVQ MHYEMLFNSF QGFFVAVIYC FCNGEVQAEI KKSWSRWTLA LDFKRKARS SSSYSYGPV
dPTH1	595	SHTSVTNVGP RAGLGLPLSP RLIPAAAATT TATINGHPPI PGHAKPGAPA L---PATIPPA TAAPKDDGFL NGSCSGLDEE ASARPPAL LQEEWETVM
rPTH1	591	SHTSVTNVGP RAGLGLPLSP RLIPAT-----T---INGHSQL PGHAKPGAPA TET-ETIPVT MAVPKDDGFL NGSCSGLDEE ASARPPAL LQEEWETVM
mPTH1	591	AHTSVTNVGP RAGLGLPLSP RLIPAT-----T---INGHSQL PGHAKPGAPA IEN-ETIPVT MTVPKDDGFL NGSCSGLDEE ASARPPAL LQEEWETVM
hPTH1	593	SHTSVTNVGP RAGLGLPLSP RLIPATA-----T---INGHPQL PGHAKPGAPA LETLETIPPA MAAPKDDGFL NGSCSGLDEE ASARPPAL LQEEWETVM

Seq. ID No. 2A dPTH1; Seq. ID No. 2B rPTH1; Seq. ID No. 2C mPTH1 and Seq. ID No. 2D hPTH1.

Figure 4

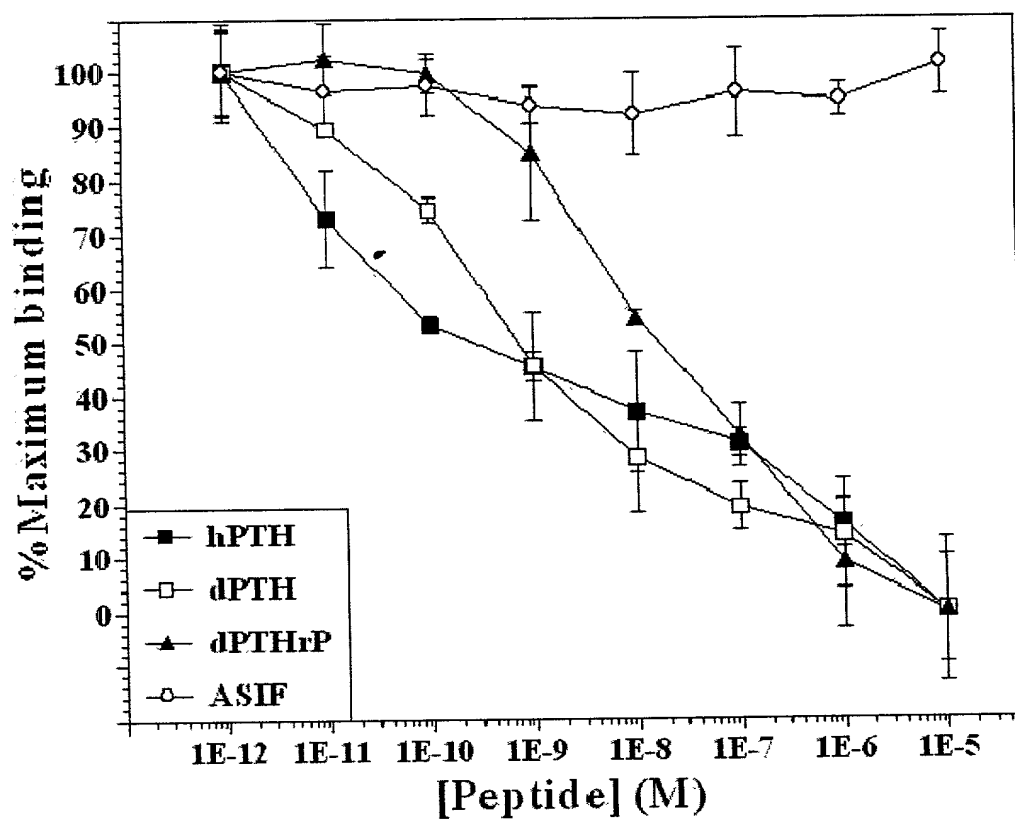


Figure 5

